<u>WHAT IS CLAIMED IS</u>:

1.   A computer-implemented method, comprising:

decompressing a trie, including:

    1) evaluating a node of the trie;

5   2) determining that the node includes a tag

flag having a setting indicative of a multiple tag

field attached to the node; and

    3) evaluating each setting in the multiple tag

field, and for each setting that indicates a tag,

10   associating the node with a category corresponding

to that tag.

2.   The method of claim 1 wherein decompressing the trie

further comprises, evaluating a tag information field to

15   determine that the trie was constructed to have at least one

node with a multiple tag field.

3.   The method of claim 1 wherein the multiple tag field

comprises a bitmask, and wherein evaluating each setting in

20   the multiple tag field comprises checking the value of each

bit in the bitmask.

4.   The method of claim 3 further comprising, evaluating information in a header of the trie to determine a size of the bitmask.

5.   The method of claim 1 wherein decompressing the trie further comprises, checking a value field to determine which tags have values associated therewith.

6.   The method of claim 1 wherein at least one of the tags has a value associated therewith, and further comprising, checking a value size array field to determine a size for each value associated with a tag.

7.   The method of claim 1 wherein decompressing the trie further comprises, checking a value size array field to determine which tags have values associated therewith.

8.   The method of claim 7 further comprising, checking the value size array field to determine a size for each value associated with a tag.

9.   The method of claim 1 wherein the node includes at least one partial enumeration count.

10. The method of claim 1 wherein the node includes a partial enumeration count for at least one of the tags.

11. A computer-readable medium having computer-
5 executable instructions for performing the method of claim 1.

12. A computer-implemented method for decompressing a trie to locate a desired node, comprising:

(a) receiving, as a received value, data corresponding to
10 the desired node in the trie;

(b) searching the trie for the desired node, including selecting, as a selected node, a node from a plurality of nodes each having a partial enumeration count, each partial enumeration count corresponding to how many nodes under that
15 node are tagged with a certain information flag;

(c) evaluating the partial enumeration count of the selected node with respect to the received value to determine if the selected node or a node under the selected node is the desired node; and

20   (i) when the partial enumeration count indicates that the desired node is not the selected node or a node under the selected node, selecting another node having a partial enumeration count from the plurality and repeating step (c); or

(ii) when the partial enumeration count indicates
that the desired node is the selected node or a node
under the selected node, returning data corresponding to
the desired node from the selected node or a node under
5   the selected node.

13.   The method of claim 12 further comprising evaluating
a tag information field having information about the structure
of the trie.

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14.   The method of claim 12, wherein returning data
corresponding to that node comprises returning a letter of a
word.

15   15.   The method of claim 12 wherein the nodes further
include a global enumeration count.

16.   The method of claim 12 wherein searching the trie
for the desired node includes maintaining a count of nodes
20   that have been searched or effectively searched.

17.   A computer-readable medium having computer-
executable instructions for performing the method of claim 12.